

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier	
Product Name	5,5',5"-(Benzene-1,3,5-triyl)tripicolinaldehyde
Synonyms	BTPA, BTTPA, 5,5'-(5-(5-Formylpyridin-2-yl)-1,3-phenylene)dipicolinaldehyde, 1,3,5-tris(2'-formylpyridyl-5')benzene
Chemical Name	5,5',5"-(Benzene-1,3,5-triyl)tripicolinaldehyde
Chemical Formula	C24H15N3O3
CAS No.	1482413-54-6
EC No.	Not available.
Index No.	Not available.
REACH Registration No.	Not applicable.
1.2 Relevant identified uses of the sul	ostance or mixture and uses advised against
Identified Use(s)	PC21 Laboratory chemicals, Research and development use only
1.3 Details of the supplier of the safet	v data sheet

1.3	Details	of the	supplier	of th	e safety	/ data	sheet
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Company Identification	Ossila Limited
Address of Supplier	Solpro Business Park
	Windsor Street
	Sheffield
Postal code	S4 7WB, UK
Telephone:	+441142999180
E-mail	info@ossila.com
Office hours	08:00 - 17:00
1.4 Emergency telephone number	
Emergency Phone #	+44 (0) 20 3885 0382 (CHEMTREC)

Emergency Phone Number (CHEMTREC)
+44 20 3885 0382
+1 703 527 3887
+52 55 8526 4930
+55 11 4349 1359
+65 3163 8374

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or Regulation (EC) No. 1272/2008 (CLP)	mixture Acute Tox. 4: Harmful if swallowed Skin Irrit. 2: Causes skin irritation Eye Irrit. 2: Causes serious eye irritation STOT SE 3: May cause respiratory irritation
2.2 Label elements	According to Degulation (EC) No. 1979/2008 (CLD)
Product Name	According to Regulation (EC) No. 1272/2008 (CLP) 5,5'-(5-(5-Formylpyridin-2-yl)-1,3-phenylene)dipicolinaldehyde
Hazard Pictogram(s)	GHS07
Signal Word(s)	Warning
Hazard Statement(s)	H302: Harmful if swallowed H315: Causes skin irritation H319: Causes serious eye irritation H335: May cause respiratory irritation
Precautionary Statement(s)	 P301 + P312 + P330: IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth. P302 + P352: IF ON SKIN: Wash with plenty of water. P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312: Call a POISON CENTER or doctor if you feel unwell. P337 + P313: If eye irritation persists: Get medical advice/attention.



2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. 2.4 Additional Information

Not applicable.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredient(s)	CAS No.	EC No.	%W/W	Hazard Statement(s)
5,5',5"-(Benzene-1,3,5-	1482413-54-6	Not available.	≤ 100	Acute Tox. 4 H302
triyl)tripicolinaldehyde				Skin Irrit. 2 H315
				Eye Irrit. 2 H319
				STOT SE 3 H335
3.2 Mixtures Not applicable.		I		
SECTION 4: FIRST AID MEA	SURES			
4.1 Description of first aid r	measures			
General Advice				quate steps to protect themselves
				personal protection equipment)
			eet to the doctor in atte	
Inhalation				le for breathing. Get medical
Olde Cantast		e/attention if you fe		
Skin Contact				et medical advice/attention.
Eye Contact				Remove contact lenses, if present
Ingestion		asy to do. Continue		/attention if you feel unwell.
4.2 Most important sympto	ms and effecte by	out mouth with wa	ived	allenilon il you leel unwell.
				te and delayed, are included on
	labelli	ng (Section 2.2) ar	d in Section 11.	
4.3 Indication of any immed				
		symptomatically.		
SECTION 5: FIREFIGHTING	MEASURES			
5.1 Extinguishing media				
Suitable Extinguishing media	As an	propriate for surrou	Indina fire.	
Unsuitable extinguishing media		propriate for surrou		
5.2 Special hazards arising				
		on oxides		
		en oxides (NOx)		
	Nitroc			
5.3 Advice for firefighters	Nitrog			
5.3 Advice for firefighters	-		complete protective clo	othing including self-contained
5.3 Advice for firefighters	Fire fi		complete protective clo	othing including self-contained
	Fire fi breath	ghters should wear ning apparatus.	complete protective clo	othing including self-contained
5.3 Advice for firefighters SECTION 6: ACCIDENTAL F	Fire fi breath RELEASE MEASU	ghters should wear ning apparatus. RES		othing including self-contained
SECTION 6: ACCIDENTAL F	Fire fi breath RELEASE MEASU protective equipm	ghters should wear ning apparatus. RES ent and emergenc	y procedures	
	Fire fi breath RELEASE MEASU protective equipm Follow	ghters should wear ning apparatus. RES ent and emergenc v safe handling adv	y procedures	ctive equipment recommendations
SECTION 6: ACCIDENTAL F	Fire fi breath RELEASE MEASU protective equipm Follov (as pe	ghters should wear ning apparatus. RES ent and emergenc v safe handling adv	y procedures	ctive equipment recommendations
SECTION 6: ACCIDENTAL F	Fire fi breath RELEASE MEASU protective equipm Follov (as pe ions	ghters should wear ning apparatus. RES ent and emergenc v safe handling adv er section 8). Provid	y procedures rice and personal protection.	ctive equipment recommendations
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SECTION 6: ACCIDENTAL F 6.1 Personal precautions, p 6.2 Environmental precauti	Fire fi breath RELEASE MEASU protective equipm Follow (as pe tions Avoid or containment an Swee collec	ghters should wear ning apparatus. RES ent and emergence v safe handling adv er section 8). Provid release to the envi d cleaning up p up spilled substa	y procedures rice and personal protect le adequate ventilation. ronment. nce - avoid making dus where practicable. Disp	ctive equipment recommendations
SECTION 6: ACCIDENTAL F 6.1 Personal precautions, p 6.2 Environmental precauti 6.3 Methods and material fo	Fire fi breath RELEASE MEASU protective equipm Follow (as pe ions Avoid or containment an Swee collec local,	ghters should wear ning apparatus. RES ent and emergence v safe handling adver section 8). Provid release to the envid d cleaning up p up spilled substa ting spilt materials,	y procedures rice and personal protect le adequate ventilation. ronment. nce - avoid making dus where practicable. Disp	ctive equipment recommendations
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SECTION 6: ACCIDENTAL F 6.1 Personal precautions, p 6.2 Environmental precauti 6.3 Methods and material fo 6.4 Reference to other sect	Fire fi breath RELEASE MEASU protective equipm Follov (as pe ions Avoid or containment an Swee collec local, icions See A D STORAGE ndling Avoid	ghters should wear ning apparatus. RES ent and emergence v safe handling adver section 8). Provid release to the envi d cleaning up p up spilled substa ting spilt materials, state or national le ulso Section 8, 13.	y procedures rice and personal protect le adequate ventilation. ronment. nce - avoid making dus where practicable. Disp gislation.	ctive equipment recommendations t. Use vacuum equipment for pose of contents in accordance with
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SECTION 6: ACCIDENTAL F 6.1 Personal precautions, p 6.2 Environmental precauti 6.3 Methods and material fo 6.4 Reference to other sect SECTION 7: HANDLING ANI 7.1 Precautions for safe ha Advice on safe handling Hygiene measures	Fire fibreath RELEASE MEASU protective equipm Follov (as performed) for containment an Swee collect local, tions D STORAGE ndling Avoid ventila Keep the er rage, including an	ghters should wear ning apparatus. RES ent and emergence v safe handling adver release to the envi d cleaning up p up spilled substa ting spilt materials, state or national le ulso Section 8, 13.	y procedures rice and personal protected adequate ventilation. ronment. nce - avoid making dus where practicable. Disp gislation.	t. Use vacuum equipment for pose of contents in accordance with n and eyes. Use only in a well- section 8. ter handling, before breaks, and at
SECTION 6: ACCIDENTAL F 6.1 Personal precautions, p 6.2 Environmental precauti 6.3 Methods and material fo 6.4 Reference to other sect SECTION 7: HANDLING ANI 7.1 Precautions for safe ha Advice on safe handling	Fire fibreath RELEASE MEASU protective equipm Follov (as performed) for containment an Swee collect local, tions D STORAGE ndling Avoid ventila Keep the er rage, including an	ghters should wear ning apparatus. RES ent and emergence v safe handling adver release to the envir d cleaning up p up spilled substa ting spilt materials, state or national le ulso Section 8, 13.	y procedures ice and personal protected a adequate ventilation. ronment. nce - avoid making dus where practicable. Disp gislation.	t. Use vacuum equipment for pose of contents in accordance with n and eyes. Use only in a well- section 8. ter handling, before breaks, and at



SAFETY DATA SHEET

Incompatible materials	None known.	
7.3 Specific end use(s)	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated	
SECTION 8: EXPOSURE CONTROLS/P	ERSONAL PROTECTION	
8.1 Control parameters 8.1.1 Occupational Exposure Limits		
	No Occupational Exposure Limit assigned.	
8.2 Exposure controls		
8.2.1. Appropriate engineering controls	Ensure adequate ventilation and/or exhaust. A washing facility/water for eye and skin cleaning purposes should be present.	
8.2.2. Personal protection equipment		
Eye Protection	Wear eye protection with side protection tested and approved under appropriate government standards such as EN166 (EU).	
Hand protection	Handle with gloves. Gloves must be inspected prior to use and proper glove removal techniques should be used. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.	
Body protection	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.	
Respiratory protection	Where risk assessment shows air-purifying respirators are appropriate use a full- face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls.	
Thermal hazards	None known.	
8.2.3. Environmental Exposure Controls	Avoid release to the environment.	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties		
Physical State	Solid: Powder.	
Colour	Beige.	
Odour	Not known.	
Odour threshold	Not known.	
Melting point/freezing point	Not known.	
Initial boiling point and boiling range	Not known.	
Flammability	Not known.	
Lower and upper explosion limit	Not known.	
Flash Point	Not known.	
Auto-ignition temperature (°C)	Not known.	
Decomposition temperature (°C)	Not known.	
рН	Not known.	
Kinematic viscosity	Not known.	
Solubility(ies)	Solubility (Water): Not known.	
	Solubility (Other): Not known.	
Partition coefficient: n-octanol/water (log	Not known.	
value)		
Vapour pressure	Not known.	
Density	Not known.	
Relative density	Not known.	
Relative vapour density	Not known.	
Particle characteristics	Not known.	
9.2 Other information		
	None.	

SECTION 10: STABILITY AND REACTIVITY

10.1	Reactivity
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10.1 Reactivity	
2	None anticipated.
10.2 Chemical Stability	
-	Stable under recommended storage conditions.
10.3 Possibility of hazardous reaction	ons
	Not known.
10.4 Conditions to avoid	
	Not known.
10.5 Incompatible materials	
	Not known.
10.6 Hazardous decomposition proc	lucts
	In the event of fire: see Section 5



SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effec	ts
Acute toxicity - Ingestion	No data available.
Acute toxicity - Skin Contact	No data available.
Acute toxicity - Inhalation	No data available.
Skin corrosion/irritation	No data available.
Serious eye damage/irritation	No data available.
Skin sensitization data	No data available.
Respiratory sensitization data	No data available.
Germ cell mutagenicity	No data available.
Carcinogenicity	No data available.
Reproductive toxicity	No data available.
Lactation	No data available.
STOT - single exposure	No data available.
STOT - repeated exposure	No data available.
Aspiration hazard	No data available.
11.2 Information on other hazards	
11.2.1 Endocrine disrupting properties	
	None known.
11.2.2. Information on other hazards	
	None known.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity	
-	No data available.
Toxicity - Aquatic invertebrates	No data available.
Toxicity - Fish	No data available.
Toxicity - Algae	No data available.
Toxicity - Sediment Compartment	Not classified.
Toxicity - Terrestrial Compartment	Not classified.
12.2 Persistence and Degradation	
	Not known.
12.3 Bioaccumulative potential	Net la euro
12.4 Mobility in soil	Not known.
12.4 Wobility In Soli	Not known.
12.5 Results of PBT and vPvB asse	
	This substance/mixture contains no components considered to be either persistent
	bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative
	(vPvB) at levels of 0.1% or higher.
2.6 Endocrine disrupting propertie	() 0
	Not known.
2.7 Other adverse effects	
	Not known.
SECTION 13: DISPOSAL CONSIDER	RATIONS
13.1 Waste treatment methods	
	Dispose of contents in accordance with local, state or national legislation. Recycle
	only completely emptied packaging. Normal disposal is via incineration operated by
	an accredited disposal contractor. Send to a licensed recycler, reclaimer or
	incinerator.
3.2 Additional Information	
	Disposal should be in accordance with local, state or national legislation.
SECTION 14: TRANSPORT INFORM	IATION
IATA/IMO/RID/ADR	Not classified as hazardous for transport.
SECTION 15: REGULATORY INFOR	MATION
15.1 Safety, health and environmer	ntal regulations/legislation specific for the substance or mixture
European Regulations - Authorisation	ns and/or Restrictions On Use
Candidate List of Substances of Very	Not listed
High Concern for Authorisation	

 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

 European Regulations - Authorisations and/or Restrictions On Use

 Candidate List of Substances of Very
 Not listed

 High Concern for Authorisation
 Not listed

 REACH: ANNEX XIV list of substances
 Not listed

 subject to authorisation
 Not listed

 REACH: Annex XVII Restrictions on the market and use of certain dangerous substances, mixtures and articles
 Not listed



Community Rolling Action Plan (CoRAP) Regulation (EC) N° 850/2004 of the European Parliament and of the Council on persistent organic pollutants	Not listed Not listed
Regulation (EC) N° 1005/2009 on	Not listed
substances that deplete the ozone layer Regulation (EU) N° 649/2012 of the	Not listed
European Parliament and of the Council concerning the export and import of	
hazardous chemicals	
National regulations Other 15.2 Chemical Safety Assessment	Not known.
13.2 Onemical Safety Assessment	A REACH chemical safety assessment has not been carried out.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements:

LEGEND

Acronyms	ADN : European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road CAS : Chemical Abstracts Service CLP : Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures DNEL : Derived No Effect Level EC : European Community EINECS : European Inventory of Existing Commercial Chemical Substances IATA : International Air Transport Association IBC : Internediate Bulk Container ICAO : International Civil Aviation Organization IMDG : International Maritime Dangerous Goods LTEL : Long term exposure limit PBT : Persistent, Bioaccumulative and Toxic PNEC : Predicted No Effect Concentration REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals RID : Regulations concerning the International Carriage of Dangerous Goods by Rail STEL : Short term exposure limit STOT : Specific Target Organ Toxicity UN : United Nations vPvB : very Persistent and very Bioaccumulative
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